

Title (en)  
Proximity data transfer devices.

Title (de)  
Vorrichtungen zur angenäherten Datenübertragung.

Title (fr)  
Dispositifs de transfert de données à proximité.

Publication  
**EP 0246374 A1 19871125 (EN)**

Application  
**EP 86303921 A 19860523**

Priority  
GB 8428482 A 19841112

Abstract (en)  
The invention relates to detail technical means for transferring the following four signal elements by proximity between an electronic memory card and a transaction terminal: (a) a flow of data from a terminal to the card (b) a flow of data from a card to a terminal (c) a flow of energy from a terminal into a card during use (d) a time or reset reference signal supplied by the terminal to the card In one execution, a, b and d are represented by timing pulses whose shape varies from saw tooth to rectangular when a logic min 0 min is followed by a logic min 1 min while power is injected acoustically. In another execution, reactively coupled coils convey data in both directions whereas energy and timing pulses are transmitted photoelectrically. In still another execution, the coils are replaced by piezo-electric emitter/receiver elements. Finally, an example of the physical embodiment is given (in figs. 5 and 6) showing the possible layout of a card having infrared energy receivers (PH) and a coil core (FC) for the data transfer, a display window (DP) and data entry buttons accessible through slots in a protective shell (SH).

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IPC 8 full level  
**G06K 7/00** (2006.01); **G06K 7/08** (2006.01); **G06K 19/07** (2006.01); **G06K 19/077** (2006.01); **G07C 9/00** (2006.01); **H04B 5/00** (2006.01)

CPC (source: EP)  
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